

What is claimed is:

1 1. A method for filling an ink into an ink cartridge,
2 comprising:
3 treating a filter with a surfactant to increase the
4 hydrophilicity of the filter, wherein the
5 filter has pores;
6 installing the treated filter in an ink cartridge;
7 and
8 filling an ink into the ink cartridge to pass through
9 the treated filter.

1 2. The method as claimed in claim 1, wherein when the
2 ink is filled into the ink cartridge, the pore of the
3 filter and the ink surface are at an angle less than 90
4 degrees.

1 3. The method as claimed in claim 1, wherein the
2 filter is a fiber filter, nylon filter, foamed filter, or
3 metal filter.

1 4. The method as claimed in claim 1, wherein the
2 surfactant has an HLB value of 3 to 18.

1 5. The method as claimed in claim 4, wherein the
2 surfactant has an HLB value of 6 to 15.

1 6. The method as claimed in claim 1, wherein the
2 surfactant is used singly.

1 7. The method as claimed in claim 1, wherein the
2 surfactant is dissolved in a solvent when used.

1 8. The method as claimed in claim 7, wherein the
2 solvent is water or a hydrophilic solvent.

1 9. The method as claimed in claim 7, wherein the
2 surfactant is present in an amount of 0.0001 to 10 weight%.

1 10. A method for filling an ink into an ink cartridge,
2 comprising:
3 installing a filter in an ink cartridge, wherein the
4 filter has pores;
5 treating the filter with a surfactant to increase the
6 hydrophilicity of the filter; and
7 filling an ink into the ink cartridge to pass through
8 the treated filter.

1 11. The method as claimed in claim 10, wherein when
2 the ink is filled into the ink cartridge, the pore of the
3 filter and the ink surface are at an angle less than 90
4 degrees.

1 12. The method as claimed in claim 10, wherein the
2 filter is a fiber filter, nylon filter, foamed filter, or
3 metal filter.

1 13. The method as claimed in claim 10, wherein the
2 surfactant has an HLB value of 3 to 18.

1 14. The method as claimed in claim 13, wherein the
2 surfactant has an HLB value of 6 to 15.

1 15. The method as claimed in claim 10, wherein the
2 surfactant is used singly.

1 16. The method as claimed in claim 10, wherein the
2 surfactant is dissolved in a solvent when used.

1 17. The method as claimed in claim 16, wherein the
2 solvent is water or a hydrophilic solvent.

1 18. The method as claimed in claim 16, wherein the
2 surfactant is present in an amount of 0.0001 to 10 weight%.

1 19. A method for filling an ink into an ink cartridge,
2 comprising:
3 providing an ink cartridge having an ink passage,
4 wherein the ink passage has a wall ;
5 treating the wall of the ink passage with a
6 surfactant to increase the hydrophilicity of
7 the wall of the ink passage; and
8 filling an ink into the ink cartridge to pass through
9 the treated the ink passage.

1 20. The method as claimed in claim 19, wherein the
2 surfactant has an HLB value of 3 to 18.

1 21. The method as claimed in claim 20, wherein the
2 surfactant has an HLB value of 6 to 15.